(12) INTERNATION

#### PPLICATION PUBLISHED UNDER THE PATE

### (19) World Intellectual Property Organization

International Bureau



# 

#### (43) International Publication Date 27 May 2004 (27.05.2004)

## **PCT**

### (10) International Publication Number WO 2004/044466 A1

(51) International Patent Classification7: F04D 27/02, F16K 11/044, 17/04

F16K 11/10,

(21) International Application Number:

PCT/GB2003/004914

(22) International Filing Date:

12 November 2003 (12.11.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0226349.9 12 November 2002 (12.11.2002) GB 0323182.6 3 October 2003 (03.10.2003) GB

- (71) Applicant (for all designated States except US): DUN-LOP AEROSPACE LIMITED [GB/GB]; Holbrook Lane, Coventry, West Midlands CV6 4AA (GB).
- (72) Inventor; and
- (75) Inventor/Applicant (for US only): TEBBY, Stephen. Walker [GB/GB]; 8 St Mary's Close, Southam, Warwickshire CV47 1EW (GB).

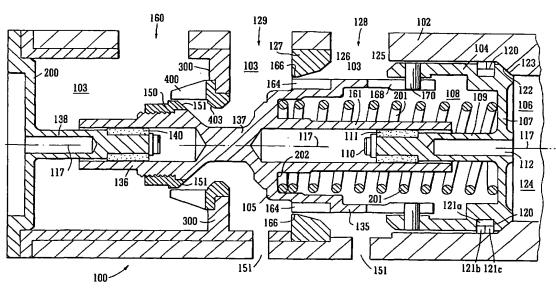
- (74) Agent: SHAW, Laurence; Laurence Shaw & Associates, Metropolitan House, 1 Hagley Road, Edgbaston, Birmingham B16 8TG (GB).
- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

[Continued on next page]

(54) Title: VALVE



(57) Abstract: A valve body (2, 102) comprises two inlet ports for receiving fluid at respective different pressures, an outlet port for delivering said fluid, a valve member (5, 105) mounted for limited movement within said body, and biasing means (60, 201) for biasing said valve member to move to one limit of its movement, said valve member being operable to move in response to the difference in pressure at said first and second ports in response to said biasing means for causing the valve member to vary the respective contributions of fluid delivered to the outlet port from the inlet ports. The valve body can contain a further movable valve member (4, 104) which is operable for receiving fluid from isolating control means and, in response thereto, for moving to obstructions one of said inlet ports and for urging the first mentioned valve member to obstruct the other inlet port.



For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.